

Data sheet

Sheet No.: TP 1.01 RevA

Date: September 2010

TorqPlus

Performance Data Open/Close and Modulating Configurations

Available Torques, Operating Speeds, Motor Duty Cycles, Motor Voltages and Locked Rotor Amp Draws.

Torque Expression: Inch-Pounds (in-lb) and Newton Meters (Nm).

Speed Expression: Seconds per 90° output rotation.

Torque Output		Operating Speed Sec/90°	Model	Motor Duty Cycle	Locked Rotor Amp Draw					
					1 Phase /50 - 60 Hz		3Ph/60Hz		Direct Current	
in-lb	nm				115VAC	230VAC	230VAC	460VAC	12VDC	24VDC
100	11	25	EM-050	30%	.51	N/A	-	-	-	-
100	11	2 <i>Note 4</i>	EM-100	30%	1.30	CF	-	-	-	-
250	28	10		30%	0.70	CF	-	-	-	-
350	39	13		30%	0.70	CF	-	-	-	-
150	17	4 <i>Note 4</i>	EM-300	30%	0.6	0.3	-	-	1.25	2.5
300	34	10		30%	0.6	0.3	-	-	1.25	2.5
400	45	15		30%	0.6	0.3	-	-	1.25	2.5
600	68	30		30%	0.6	0.3	-	-	1.25	2.5
180	20	5 <i>Note 4</i>	EM-520	30%	0.6	0.3	-	-	1.25	2.5
450	51	10		30%	0.6	0.3	-	-	1.25	2.5
600	68	15		30%	0.6	0.3	-	-	1.25	2.5
1000	113	30		30%	0.6	0.3	-	-	1.25	2.5
350	39	5 <i>Note 4</i>	EM-500	100%	0.7	0.4	-	-	2.5	5.0
700	79	10		100%	0.7	0.4	-	-	2.5	5.0
1000	113	15		100%	0.7	0.4	-	-	2.5	5.0
1600	181	30		100%	0.4	0.5	-	-	2.5	5.0
325	36	2 <i>Note 4</i>	EM-510	100%	1.6	0.8	-	-	4.3	8.5
600	68	5 <i>Note 4</i>		100%	1.6	0.8	-	-	4.3	8.5
1000	113	7 <i>Note 4</i>		100%	1.6	0.8	-	-	4.3	8.5
2000	226	12	EM-810	100%	3.2	1.3	CF	CF	-	-
2500	282	18		100%	.32	1.3	CF	CF	-	-
3500	395	30		100%	3.2	1.3	CF	CF	-	-
4000	452	60		100%	3.2	1.3	CF	CF	-	-
3000	339	12	EM-820	100%	3.2	1.3	CF	CF	-	-
4000	452	18		100%	3.2	1.3	CF	CF	-	-
6000	678	30		100%	3.2	1.3	CF	CF	-	-
7000	791	60		100%	3.2	1.3	CF	CF	-	-

- NOTE:
- Operating speed is nominal at rated torques. Final operating speed may vary depending on actual service.
 - Actuators with 12VDC motors will have an operating speed of approximately 40% longer (slower) than that shown.
 - CF – Consult Factory
 - Bettis does not recommend the use of any actuator for any modulating application with an operating speed of 10 seconds or less.

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EMERSON™

Data sheet

Sheet No.: TP 1.02 RevA

Date: September 2010

TorqPlus

Performance Data

Open/Close and Modulating Configurations

Available Torques, Operating Speeds, Motor Duty Cycles, Motor Voltages and Locked Rotor Amp Draws.

Torque Expression: Inch-Pounds (in-lb) and Newton Meters (Nm).

Speed Expression: Seconds per 90° output rotation.

Torque Output		Operating Speed Sec/90°	Model	Motor Duty Cycle	Locked Rotor Amp Draw					
					1 Phase /50 - 60 Hz		3Ph/60Hz		Direct Current	
in-lb	nm				115VAC	230VAC	230VAC	460VAC	12VDC	24VDC
5000	565	12	EM-830	100%	6.0	2.8	CF	CF	-	-
7000	791	18		100%	6.0	2.8	CF	CF	-	-
10000	1130	30		100%	6.0	2.8	CF	CF	-	-
10000	1130	60		100%	6.0	2.8	CF	CF	-	-
15000	1695	48	EM-840	100%	6.0	2.8	CF	CF	-	-
20000	2260	72		100%	6.0	2.8	CF	CF	-	-
300	34	10 <small>Note 4</small>	EM-SR5	100%	0.7	0.7	-	-	-	-
400	45	15		100%	0.7	0.7	-	-	-	-
600	68	30		100%	0.7	0.4	-	-	-	-
1600	181	90		100%	0.7	0.4	-	-	-	-

- NOTE:
1. Operating speed is nominal at rated torques. Final operating speed may vary depending on actual service.
 2. Actuators with 12VDC motors will have an operating speed of approximately 40% longer (slower) than that shown.
 3. CF – Consult Factory
 4. Bettis does not recommend the use of any actuator for any modulating application with an operating speed of 10 seconds or less.

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